AMENDMENT

In the Specification:

Please replace the paragraph, beginning on page 27, line 5, with the following rewritten paragraph:

--The kinase domain of human JAK1 was amplified from U937mRNA using the polymerase chain reaction with the following primers:

XHOI-J1 5'-CCG CTC GAG ACT GAA GTG GAC CCC ACA CAT-3'

(SEQ ID NO:1)

J1-KPNI 5'-CGG GGT ACC TTA TTT TAA AAG TGC TTC AAA-3'

(SEQ ID NO:2)--

Please replace the paragraph, beginning on page 27, line 14, with the following rewritten paragraph:

-- The kinase domain of human JAK2 was amplified from U937mRNA using the polymerase chain reaction with the following primers:

SALI-jk2 5'-ACG CGT CGA CGG TGC CTT TGA AGA CCG GGA T-3'

(SEQ ID NO:3)

(SEQ ID NO:4)--

jk2-NOTI 5'-ATA GTT TAG CGG CCG CTC AGA ATG AAG GTC ATT T-3'

Please replace the paragraph, beginning on page 27, line 23, and bridging to page 28, with the following rewritten paragraph:

-- The kinase domain of human JAK3 was amplified from U937mRNA using the polymerase chain reaction with the following primers:

Serial No. 10/537,719 Docket No. 529282001600 XHOI-J3 5'-CCG CTC GAG TAT GCC TGC CAA GAC CCC ACG-3'
(SEQ ID NO:5)

J3-KPNI 5'-CGG GGT ACC CTA TGA AAA GGA CAG GGA GTG-3'
(SEQ ID NO:6)--

Please replace the paragraph, beginning on page 28, line 8, with the following rewritten paragraph:

--The kinase domain of human TYK2 was amplified from A549 mRNA using the polymerase chain reaction with the following primers:

HT2EK 5'-GGA GCA CTC GAG ATG GTA GCA CAC AAC CAG GTG-3'
(SEQ ID NO:7)

ITY2.2R 5'-GGA GCA GGA ATT CCG GCG CTG CCG GTC AAA TCT GG-3'
(SEQ ID NO:8)--

Please replace the paragraph, beginning on page 28, line 21, and bridging to page 29, with the following rewritten paragraph:

--Kinase assays were performed in a 96 well capture-based ELISA assay or in 384 well Optiplates (Packard) using an Alphascreen Protein Tyrosine Kinase kit. In either easse case using approximately 1.5 μg of affinity purified PTK domain in the presence of 50mM HEPES, pH 7.5, 10mM MgCl₂, 150mM NaCl and 10μM-1mM ATP. The biotinylated substrate biotin-EGPWLEEEEEAYGWMDF-NH₂ (SEQ ID NO:9) (final concentration 5μM) was used as substrate. In the ELISA assay tyrosine phosphorylation was quantitated following transfer to an avidin coated ELISA plate using peroxidase-linked anti-phosphotyrosine antibody PY20. In the Alphascreen assay, Alphascreen phosphotyrosine acceptor beads followed by streptavidin donor beads were added under subdued light. The ELISA plates were read on a BMG Fluorostar, the Alphascreen plates were read on a Packard Fusion

Alpha. Inhibitors were added to the assays fifteen minutes prior to the addition of ATP.

Inhibitors were added in aqueous DMSA, with DMSA concentrations never exceeding 1%.--